

AMENDMENT

Listing of Claims:

The following listing of claims replaces all previous listings or versions thereof:

1. (Previously presented) An isolated antimicrobial peptide of 12-37 residues, the peptide comprising an amino acid sequence selected from the group consisting of:

KNLRRIRKIIHIKKYG-NH₂ (SEQ ID NO: 1),
KNIRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 6),
KNIRRIIRKIIHIKKYG (SEQ ID NO: 7),
KNLRRIRKIIHIKKYG (SEQ ID NO: 8),
NLRRIRKIIHIKKY (SEQ ID NO 9),
NIRRIIRKIIHIKKY (SEQ ID NO: 10),
LRRIRKIIHIKK-NH₂ (SEQ ID NO: 11),
LRRIRKIIHIKK (SEQ ID NO: 12),
IRRIIRKIIHIKK-NH₂ (SEQ ID NO: 13),
IRRIIRKIIHIKK (SEQ ID NO: 14),
LRRIRKIIHIK-NH₂ (SEQ ID NO: 15),
RRIIRKIIHIKK-NH₂ (SEQ ID NO: 16),
RRIIRKIIHIK-NH₂ (SEQ ID NO: 17),
KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20),
RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21),
LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),
LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),
RKFRNKIKEKLKKIG (SEQ ID NO: 24),
KIKEKLKKIGQKIQG (SEQ ID NO: 25),
KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),
and
KNLRRIRKIIHIKKYGPTILRIIRIIG-NH₂ (SEQ ID NO: 28).

2. (Canceled)
3. (Previously presented) A pharmaceutical composition comprising an antimicrobial peptide of 12 to 37 residues, the peptide comprising an amino acid sequence selected from the group consisting of:

KNLRRIRKIIHIKKYG-NH₂ (SEQ ID NO: 1),
KNIRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 6),
KNIRRIIRKIIHIKKYG (SEQ ID NO: 7),
KNLRRIRKIIHIKKYG (SEQ ID NO: 8),
NLRRIRKIIHIKKY (SEQ ID NO 9),
NIRRIIRKIIHIKKY (SEQ ID NO: 10),
LRRIRKIIHIKK-NH₂ (SEQ ID NO: 11),
LRRIRKIIHIKK (SEQ ID NO: 12),
IRRIIRKIIHIKK-NH₂ (SEQ ID NO: 13),
IRRIIRKIIHIKK (SEQ ID NO: 14),
LRRIRKIIHIK-NH₂ (SEQ ID NO: 15),
RRIIRKIIHIKK-NH₂ (SEQ ID NO: 16),
RRIIRKIIHIK-NH₂ (SEQ ID NO: 17),
KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20),
RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21),
LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),
LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),
RKFRNKIKEKLKKIG (SEQ ID NO: 24),
KIKEKLKKIGQKIQG (SEQ ID NO: 25),
KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),

and

KNLRRIRKIIHIKKYGPTILRIIRIIG-NH₂ (SEQ ID NO: 28),
formulated in a pharmaceutically acceptable carrier.

4-33. (Canceled)

34. (Previously presented) An antimicrobial peptide consisting of a sequence
KNLRRIRKIIHIKKYG-NH₂ (SEQ ID NO: 1).
35. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
KNIRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 6).
36. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
KNIRRIIRKIIHIKKYG (SEQ ID NO: 7).
37. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
KNLRRIRKIIHIKKYG (SEQ ID NO: 8).
38. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
NLRRIRKIIHIKKY (SEQ ID NO 9).
39. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
NIRRIIRKIIHIKKY (SEQ ID NO: 10).
40. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
LRRIRKIIHIKK-NH₂ (SEQ ID NO: 11).
41. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
LRRIRKIIHIKK (SEQ ID NO: 12).
42. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
IRRIIRKIIHIKK-NH₂ (SEQ ID NO: 13).

43. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence IRRIRKIIHIKK (SEQ ID NO: 14).
44. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence LRRIIRKIIHIK-NH₂ (SEQ ID NO: 15).
45. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RRIIRKIIHIKK-NH₂ (SEQ ID NO: 16).
46. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RRIIRKIIHIK-NH₂ (SEQ ID NO: 17).
47. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence GLRKRLRKFRNKIKEKLKKIG (SEQ ID NO: 19).
48. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20).
49. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21).
50. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22).
51. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23).
52. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RKFRNKIKEKLKKIG (SEQ ID NO: 24).

53. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQG (SEQ ID NO: 25).
54. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQGLL (SEQ ID NO: 26).
55. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KNLRRIIRKIIHIIKKYGPTILRIIRIIG-NH₂ (SEQ ID NO: 28).